Sun Buddy

Kit contains:

- 1 long pipe cleaner
- 2 short pipe cleaner pieces
- UV color-changing beads
- 2 googly eyes

You will need: scissors (optional, if you need to trim the pipe cleaners).

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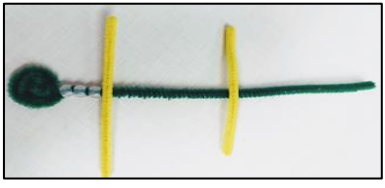
INSTRUCTIONS

Step 1. Twist the pipe cleaner into a circle shape for the head. Thread some beads onto the “neck”, then twist on the shorter pipe cleaner pieces to make legs.



Step 2. Add all the beads and twist the pipe cleaners until you have completed your creature. Add the googly eyes (peel off the paper on the back to stick them on). Here’s our Sun Buddy:

Take your Sun Buddy outside on a sunny day.

You should see the beads on Sun Buddy's body change color. Here's why:

The Science of UV Color-Changing Beads

These white beads are Ultraviolet (UV), color-changing beads. When the beads are exposed to ultraviolet light from the sun, they react by changing colors. The sun produces many different types of light. The light we can see is called white light, but the sun also produces another kind of light, ultraviolet light, that we can't see. Ultraviolet light is the invisible radiation that causes you to get a sunburn if you are out in the summer sun for too long.

EXPERIMENT

Outside: How can you keep Sun Buddy from changing color?

Create shade by using your hand or build a shelter for Sun Buddy. Observe and record what happens.

Inside: What happens when you place Sun Buddy in the beam of an electric light like a lamp or a flashlight? Why?